

# **Missouri Department of Natural Resources**

#### PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: July 16, 2004

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, Missouri 65102, ATTN: Peter Goode, Professional Engineer. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see  $\underline{\text{Curdt}}$  v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by August 16, 2004 or received in our office by 5:00 p.m. on August 19, 2004. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <a href="http://www.dnr.state.mo.us/wpscd/wpcp/homewpcp.htm">http://www.dnr.state.mo.us/wpscd/wpcp/homewpcp.htm</a>, or at the Department of Natural Resources, Water Protection Program, 205 Jefferson Street, P.O. Box 176, Jefferson City, Missouri 65102, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: July 16, 2004 Permit Number: MO-0130516 Kansas City Regional Office	
FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
Kansas City Municipal Separate Storm Sewer System 414 East 12 <sup>th</sup> Street Kansas City, MO 64106	City of Kansas City 414 East 12 <sup>th</sup> Street Kansas City, MO 64106
RECEIVING STREAM & LEGAL DESCRIPTION  Various throughout the city	TYPE OF DISCHARGE Municipal/industrial, new

## STATE OF MISSOURI

## DEPARTMENT OF NATURAL RESOURCES

## MISSOURI CLEAN WATER COMMISSION



# MISSOURI STATE OPERATING PERMIT

MO-0130516

City of Kansas City

Permit No.

Owner:

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Address:	414 East 12 <sup>th</sup> Street, Kansas City, M 64106
Continuing Authority: Address:	Kansas City Water Services pt 4800 East 63 <sup>rd</sup> Street, K. City 64130
Facility Name: Facility Address: is authorized to discharge from the faciliset forth herein:	Kansas City Munici Sepa Storm wer System 414 East ree sa lity, MO 64130  Coor harffluent limitations and monitoring requirements as
FACILITY DESCRIPTION	
(hereinafter referred to as portions of the City of Inc waters of the State in accommonitoring requirements, an VII, VIII and IX herein.	the Clean Water Act, 33 USC 1251 et seq., as amended 198 PL 100-4, the "Act", the City of Independence, MO, s "The City" or "Permittee") is authorized to discharge from all dependence Municipal Separate Storm Sewer System ("MS4"), to the ordance with the approved Storm Water Management Program (SWMP), and other provisions set forth in Parts I, II, III, IV, V, VI, discharges under the Missouri Clean Water Law and the National Pollutant Discharge
	o other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of
Effective Date	Stephen M. Mahfood, Director, Department of Natural Resources Executive Secretary, Clean Water Commission
Expiration Date MO 780-0041 (10-93)	Jim Hull, Director of Staff, Clean Water Commission

#### PART I. DISCHARGE AUTHORIZED UNDER THIS PERMIT

- Permit Area. This permit covers all areas located within the corporate boundary of the City of Kansas City, Missouri, that are served by a MS4 owned or operated by the permittee.
- Authorized Discharges. This permit authorizes all existing or new storm water point source discharges to waters of the State from the permittee's MS4. This permit also authorizes the discharge of storm water commingled with flows contributed by process wastewater, non-process wastewater, and storm water associated with industrial activity, provided the discharges are regulated by other NPDES permits or are discharges which are not significant sources of pollutants as described under Part I.B.1.

The following non-storm water discharges are author by this permit, provided 1. they are not identified by the permittee or the Protection Program as rs of the State of Missouri. contributing significant amounts of pollut

- water line flushing a.
- landscape irrigation b.
- defined at 40 CFR 35.2005(20)) uncontaminated ground C. ηfί
- discharges from potabl d. foundation dra e.
- f. air conditioni
- g. springs
- h. water from crawl
- i. footing drains
- j. lawn watering
- k. non-commercial car washing
- natural flows from riparian habitats and wetlands
- street wash waters m.
- n. fire fighting activities
- Ο. diverted stream flows
- rising groundwaters p.
- q. uncontaminated pumped groundwater
- irrigation water r.
- dechlorinated swimming pool discharges
- Limitations on Coverage. The following discharges, whether discharged separately or commingled with municipal storm water, are not covered by this permit:
  - Non-storm Water: Discharges of non-storm water from water contaminant point sources located within the City of Kansas City, Missouri, that are subject to Operating Permit requirements under 10 CSR 20-6.010(5) must be authorized under separate State Operating Permit. This permit does not transfer responsibility for compliance with any separate State Operating Permit to the city.
  - Storm Water Discharge Associated with Industrial Activity: Storm water discharge associated with industrial activity or construction activity that is subject to storm water permitting requirements under 10 CSR 20-6.200(2) must be authorized under a separate storm water State Operating Permit. This permit does not transfer responsibility to the city for compliance with any separate State Operating Permit for storm water discharge associated with industrial activity or land disturbance activity.

c. Spills: discharges of material resulting from a spill. This permit does not transfer liability for a spill from the party(ies)responsible for the spill to the permittee nor relieve the party(ies) responsible for a spill from applicable federal, state, and local requirements.

## C. Permittee Responsibilities

The permittee is responsible for:

- 1. Compliance with permit conditions relating to discharges from portions of the MS4 where the permittee is the operator;
- 2. Storm Water Management Program implementation on portions of the MS4 where the permittee is the operator;
- 3. Collection of representative wet weather monitoring data required by Part VI.A., according to such agreements as may be established between the permittee and other entities.
- 4. Compliance with annual reporting requirements on Storm Water Management Program activities conducted by the permittee as specified in Part VI.C.

## PART II. STORM WATER MANAGEMENT PROGRAM

The City of Kansas City, Missouri, shall implement a Wate anagement Program (SWMP) including controls necessary to effectively prorst√rm w r discharges into municipal separate storm sewers and reduce the ard **ે**011પ્રે ts from the MS4 to the Maximum Extent Practicable (MEP). The SW cordance with Section ented in ıal 402(p)(3)(B) of the Clean Water Act, ral Regulations (40 CFR Part 122.26), and the state storm wat 200).

The SWMP shall cover the term of the compliance with the statutory recompliance with the statutory recompliance with the SWMP shall in ccordance with Parts III.G. and VIII.C. Compliance with the SWMP and any less in Part III shall be deemed compliance with Parts III.A. and III.B. The SWMP, and all updates made in accordance with Part III.G., are hereby incorporated by reference.

Implementation of the SWMP may be achieved through participation with public agencies or private entities in cooperative efforts to satisfy the requirements of Part III. The SWMP, taken as a whole, shall achieve the "effective prohibition of the discharge of non-storm water" and "MEP" standards from Section 402(p)(3)(B) of the Act.

## PART III. SWMP REQUIREMENTS

## A. SWMP Requirements

SWMP requirements consist of the following:

- 1. Program to Address Post-Construction Discharge from Areas of New Development and Significant Redevelopment. The permittee shall implement a program to reduce the discharge of pollutants to the MS4 from areas of new development or areas of significant redevelopment after construction is completed by:
  - a. Including water quality considerations in land use planning, site plan review and approval, and subdivision approval. Specifically, the permittee shall develop as part of the SWMP, project review and approval procedures for new development and significant development. The program shall include:

- i. Procedures for incorporating and addressing post-construction storm water quality concerns as part of the permitting process for new development and significant redevelopment, including detailed procedures for inter-departmental review and conditioning to ensure appropriate BMPs are incorporated into approved design plans.
- ii. A description of review standards and a description of the site development review process to be used to educate both internal staff and external project proponents.
- iii. Minimum design criteria for structural BMPs.
- b. Operation and maintenance of post-construction BMPs, including regional detention basins. The permittee shall implement a maintenance program for the storm water regional detention basins that are owned or operated by the permittee.
- c. Reporting requirements. The permittee shall demonstrate compliance with the requirements for post-construction controls for new development and redevelopment by providing a summary of implementation activities in their Annual Report.
- 2. **Program to Control Discharge from Roadways.** The permittee shall operate publicly-owned streets, roads, and highways in a manner to reduce the impacts on receiving waters of discharges from municipal streets, including pollutants discharged as a result of deicing term, by describing and implementing programs to:
  - a. Store and cover deicing chemical min the scharge of deicing salts to the MS4.
  - b. Effectively sweep published watershed goals by tipe its his considering water quality and
  - c. Maintaining s chedule necess t e e charge of excess materials during storm events.
- 3. Program to Assess Impa Flood Control Projects on Water Quality Conditions The permittee shall describ and implement procedures to assure that new and existing flood control projects are assessed for impacts on the water quality of receiving water bodies, by:
  - a. Using assessment procedures to evaluate new flood control projects proposed in the city.
  - b. Evaluating existing major flood control facilities for retrofitting with storm water quality controls by:
    - Identifying structures that could be enhanced by retrofitting with storm water quality features;
    - ii. Evaluating the feasibility of retrofitting those structures based upon considerations of type, location, watershed, ownership, public health, benefits and cost.

- 4. Program to Control Pollutants in Runoff from Municipal Waste Management Facilities that are not Permitted by a Separate Permit. A program shall be implemented to identify and control pollutants in storm water discharges to the MS4 from municipal landfills or other treatment, storage, or disposal facilities for municipal waste that are not permitted by a separate permit. The permittee will implement the program described in the SWMP to monitor pollutants in runoff from municipal landfills and treatment, storage, or disposal facilities for municipal waste. If the permittee determines that additional measures are needed to control discharge of pollutants to the MS4 from municipal landfills and treatment, storage or disposal facilities for municipal waste, the permittee will develop a schedule for implementation.
- 5. Monitor and Control Pollutants from Industrial and High-Risk Runoff. The permittee will implement a program to monitor and control pollutants in storm water discharges to the MS4 from hazardous waste treatment, disposal, and recovery facilities; industrial facilities that are subject to SARA Title III Section 313 and other industrial or commercial facilities that the permittee determines is contributing or have the potential to contribute a substantial pollutant loading to the MS4, by:
  - a. Updating the inventory of industrial and other high-risk dischargers to the MS4 that are not permitted by a separate Missouri State Operating Permit. These facilities could include:
    - i. Hazardous waste treatment, disposal, and recovery facilities;
    - ii. Industries subject to reporting requirements tuant to SARA Title III Section 303, and;
    - iii. Other non-permitted industrial and cilities that the permittee determines are a high ris pronting pollutants to the MS4.
  - b. Establishing a priority list of fa lies sed on sting or potential pollutant loading.
  - c. Developing an inspection so -at the program to assess these facilities. This inspection comb bother existing inspection programs (i.e., pro
  - d. Developing an individe the priority facilities identified in the inventory required III.A.5.b.
  - e. Alternative Certific A: In lieu of monitoring, the permittee(s) may accept a certification from a facility that raw and waste materials, final and intermediate products, by-products, material handling equipment or activities, industrial machinery or operations, or significant materials from past industrial activity are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period. Where the permittee(s) accept a "no exposure" certification, the permittee(s) shall conduct at least one site inspection of the facility every five years to verify facility's "no exposure" exemption.
- 6. Program to Reduce the Discharge of Pesticides, Herbicides, and Fertilizers (PHF). The permittee shall implement a program to reduce to the MEP, pollutants in discharges from the MS4 that are associated with PHFs, by:
  - a. Continuing its public education program to promote the proper use, handling, storage, and disposal of PHFs.

- b. Implementing BMPs to reduce the contribution of pollutants associated with the application, storage, and disposal of PHFs on city-owned property and right-of-ways.
- 7. **Program to Reduce Illicit Discharges, Spills, and Improper Disposal.** The permittee shall implement a program to prohibit non-storm water discharges to the MS4.
  - a. The permittee will develop a city ordinance to prohibit illicit discharges to the waters of the MS4 except for certain listed de minimis discharges. The permittee will develop a procedure for investigation of illicit discharges and enforcement to prevent such discharges
  - b. The permittee shall implement a field screening program for illicit discharges. In year 1, the permittee shall identify priority areas for illicit discharge screening, including concentrated areas of industrial and commercial facilities, and shall develop procedures for conducting field screening activities and recording results. The permittee shall submit an updated description of its field screening program in the year 1 Annual Report.
  - c. In year 2, the permittee shall initiate it eld screening program for illicit discharges. Beginning with the Annual report, the permittee shall provide a summary of field trivities conducted during the reporting period and the illicit charges that were successfully removed from the MS4.
  - im The permittee shall continu ent prd dures to investigate when eported The permittee shall illicit discharges isc complaints. The permittee shall investigate repor ci dat maintain A a complaint is received, the complaint type, res and the ultimate resolution of the complaint.
  - e. The permitt sh time to implement procedures to prevent, contain and respond to s had may discharge into the MS4.
  - f. The permitted continue its public education program to inform the public on how to respond to spills, illegal dumping, illicit discharges, and water quality problems including how to correctly manage and dispose of used oil and toxic household materials. The permittee will also continue use of the mobile collection events or may include the establishment of collection sites to collect household hazardous waste. The permittee shall designate a telephone number to be used for all illicit discharge reporting. The permittee shall maintain records of illicit discharge and spill calls. The permittee shall provide staff to answer calls made to the telephone number during normal business hours. During non-business hours, callers should either be directed to emergency response personnel or another party designated by the permittee.
  - g. The permittee will continue its sanitary sewer maintenance program to limit infiltration from municipal sanitary sewers to the MS4.
- 8. **Program to Reduce Pollutants in Construction Site Runoff.** The permittee shall continue its program to reduce to the MEP the discharge of erosion and sediment pollutants to the MS4 from construction sites disturbing one or more acres, by:
  - a. Requiring erosion and sediment controls for land disturbing activities through the use of the erosion and sediment control ordinance, Chapter 63 Article II, Kansas City Code of Ordinance. The permittee shall review and update ordinance(s), as necessary for compliance with this permit. The updated grading ordinance shall require implementation of erosion and sediment control BMPs and other measures during all active construction activities.

- b. Maintaining an inventory of active construction sites. The permittee shall develop and implement an effective system to track erosion and sediment control permits (or their equivalent grading permits) on active construction sites. The tracking system shall identify basic site information (e.g., owner, location, contractors, etc.), status (active, on-hold, complete, etc.), size in acres, proximity to natural and man-made hydrologic features, required inspection frequency, project start and anticipated completion dates. The permittee shall update this inventory on a monthly basis and output from the system shall be available to MO DNR upon request.
- c. Inspecting of construction sites. The permittee shall inspect all active construction sites for compliance with the City's grading ordinance (e.g., "Stormwater, Erosion and Sediment Control", Chapter 63) and grading permit. Inspections shall include a visual review of site erosion and sediment controls, BMP implementation plans, and/or SWPPPs. Records of inspections shall be retained by the permittee.
- Providing inspector training and outreach to the construction industry. Each inspector shall receive adequate training to readily identify non-compliance with the ordinance, applicable plans, or pormits and shall be knowledgeable regarding proper erosion and sediment, BMP options, installation, and an inspection checklist, or required maintenance. Inspectors should be sho deficiencies, and corrective equivalent, to document site co \alop fa actions taken. The permitt \itate appropriate education and sha crease awareness of the training for construction go ş ls td ontrol d requirements of th inance and this permit.
- Enforcing the page n site runoff program. The permittee s shall enfo un lpa (erosion and sediment control, MS4 Regulati Zion, grading, building, etc.) at construct ry to comply with this permit. The permittee shall deva a written progressive enforcement policy to ensure con les are brought into compliance. The permittee's ordinances er regulatory mechanisms shall contain sanctions to ensure compliance.
- B. Area-specific SWMP Requirements. Reserved.
- C. **Deadlines for Program Implementation.** Except as provided in Part IV., full initial implementation of the Storm Water Management Program shall begin within 90 days from the effective date of the permit.
- D. Roles and Responsibilities of Permittee. The permittee is responsible for implementing the city's Storm Water Management Program in areas located within the corporate boundary of the city that are served by municipal separate storm sewers owned or operated by the permittee. The permittee is responsible for Part VI. monitoring requirements and annual reporting on SWMP activities conducted by the permittee.
- E. **Legal Authority.** The permittee shall ensure legal authority to control discharges to and from the MS4. This legal Authority may be a combination of statute, ordinance, permit, contract, order or inter-jurisdictional agreements with another jurisdiction, with existing legal authority to:
  - 1. Control the contribution of pollutants to the MS4 by storm water discharges associated with industrial activity and the quality of storm water discharged from sites of industrial activity;
  - 2. Prohibit illicit discharges to the MS4;

- 3. Control the discharge of spills and the dumping or disposal of material other than storm water (e.g., industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) into the MS4;
- 4. Control through interagency or inter-jurisdictional agreements the contribution of pollutants from one portion of the MS4 to another;
- Require compliance with conditions in ordinances, permits, contract or orders;
   and
- 6. Carry out all inspection, surveillance and monitoring procedures necessary to determine compliance with permit conditions.
- F. Storm Water Management Program Resources. The permittee shall provide adequate finances, staff, equipment, and support capabilities to implement its activities under the Storm Water Management Program.

## G. SWMP Review and Update.

- 1. Storm Water Management Program Review: The permittee shall conduct an annual review of the Storm Water Management Program in conjunction with preparation of the annual report required under Part VI.C.
- 2. Storm Water Management Program Update: The permittee may change the Storm Water Management Program during the life of the permit in accordance with the following procedures:
  - a. The approved Storm Water Management Program shall not be changed by the permittee without the approval of the Water Pollution Control Program, unless in accordance with Part III.G.2.b., c., or d.
  - b. Changes adding (but not subtracting or replacing) components, controls, or requirements to the Storm Water Management Program may be made by the permittee at any time. Such changes are automatically incorporated into the approved SWMP upon written notification to the Water Pollution Control Program Permits Section.
  - c. Changes replacing an ineffective or unfeasible BMP or other mechanism to implement a program component specifically identified in the Storm Water Management Program with an alternate BMP may be requested at any time. Unless denied by the Water Protection Program, changes proposed in accordance with the criteria below shall be deemed approved and may be implemented by the permittee 60 days from submittal of the request. Such requests shall include the following:
    - (1) An analysis of why the BMP is ineffective or infeasible (including cost prohibitive);
    - (2) Expectations on the effectiveness of the replacement BMP; and
    - (3) An analysis of why the replacement BMP is expected to achieve the goals of the BMP to be replaced.
  - d. Changes resulting from schedules contained in Part IV are automatically incorporated into the approved Storm Water Management Program upon written notification to the Water Protection Program in accordance with Part IV.B.
  - e. Change requests or notifications shall be made in writing and signed in accordance with Part VI.D.

3. Transfer of Ownership, Operational Authority, or Responsibility for Storm Water Management: Program Implementation: The permittee shall implement the Storm Water Management Program on all areas added to their portion of the MS4 (or for which they become responsible for implementation of storm water quality controls) as expeditiously as practical, but not later than three years from addition of the new areas. Implement may be accomplished in a phased manner to allow additional time for that cannot be implemented immediately.

H. Retention of SWMP Records. The permit sha ain Storm Water Management Program developed in accordance with coverage under this five-year to be a storm of the storm of the storm of the storm of Storm Water Management II and IV. It is a storm of the storm of SWMP Records. The permit sha ain Storm Water Management II and IV. It is a storm of the storm of

## PART IV. SCHEDULES FOR IMPLEM

as Water Quality Treatment

The permittee shall comply with the line schedules for the Storm Water Management Program implementation and augment, and permit compliance.

A. Implementation and Augmentation of the SWMP Requirements. The program elements are taken from Part III, Subpart A, of this permit.

	Activity	Date 1 <sup>st</sup> Deliverable Due	Frequency Thereafter
1.	Program to Control Post-Construction Discharges from Areas of New Development and Significant Redevelopment		
a.	Submit an updated program description that demonstrates how the city incorporates water quality considerations in land use planning, site plan review and approval, and sub-division approval	Year 2 Annual Report	
b.	Submit an annual summary of implementation activities for post-construction controls for new development and significant redevelopment	Year 1 Annual Report	Annually
C.	Submit an updated description of the city's program to inspect and maintain regional detention basins, including a summary of regional detention basin inspection and maintenance activities.	Year 1 Annual Report	
2	Program to Control Discharge from Roadways		
a.	Submit an updated description of the city's program and activities to control discharges from roadway maintenance, deicing activities, deicing chemical	Year 1 Annual Report	Annually
b.	storage and storm sewer maintenance. Continue implementation of existing program components that are compliant with a.	Immediately	
3	Program to Utilize Flood Control Projects		

a.	Develop and submit description of the	Year 1 Annual Report	
	process developed to evaluate water		
	quality improvement aspects of existing		
b.	and new flood control projects  Evaluate existing major flood controls for	Year 2 Annual Report	Annually
	retrofitting.		
C.		Year 2 Annual Report	Annually
	utilized for water quality improvement within the city as referenced in a. and b.		
4	Program to Control Pollutants in Runoff		
-	from Municipal Waste Management Facilities		
	that are not Permitted by a Separate		
	Permit		
a.	Monitor and evaluate pollutants in runoff	Year 3 Report	
	from municipal landfills and TSDs for		
	municipal waste to determine if additional		
,	control measures are necessary		
b.	Describe, schedule, and implement	Yed Annual port	
	necessary control measures for wne landfills and TSDs for municip was		
5	Program to Control Poll		
•	Industrial and High Ria (a)		
a.	Update and submit an in ton of 1	Year 1 Annual Report	Annually
	industrial and high risk scl ge		
	developed in accordance w t		
_	III.A.5.a		
b.	<u>-</u>	Year 1 Annual Report	
	of industrial and high-risk dischargers in accordance with Part III. A.5. b.		
c.		Year 1 Annual Report	
С.	industrial and high-risk facility	rear i Aimaar Report	
	inspection or self-auditing program.		
d.	Develop, submit, and implement a program	Year 2 Annual Report	Years 2 through 4
	to monitor or require self-monitoring at		
	priority facilities		
e.	1 5	Year 4 Annual Report	
6	accordance with Part III.A.5.c.  Program to Reduce the Discharge of		
0	Pesticides, Herbicides and Fertilizers		
a.		Year 1 Annual Report	Annually
	activities conducted for the City's public		
	education program on PHFs.		
b.	<u> </u>	Year 1 Annual Report	
	description of BMPs to minimize the		
	discharge of PHFs from application on		
	municipal property by city staff or contractors.		
7	Program to Reduce Illicit Discharges,		
•	Spills, and Improper Disposal		
a.	Develop and implement an ordinance(s)	Year 2 Annual Report	Annually
	which prohibit illicit discharges or	<u>.</u>	-
	connections to the MS4		
b.	Develop, implement, and submit a	Year 1 Annual Report	
	description of a field screening program		
	for illicit discharges		

c.	Develop written procedures for dry weather monitoring and field screening at outfalls	Year 1 Annual Report	
d.	Continue to implement procedures to investigate when discharges are discovered or reported	Year 1 Annual Report	Annually
е.	Continue to implement procedures to prevent, contain, and respond to spills discharged into the MS4	Year 1 Annual Report	Annually
f.	Submit an annual summary of implementation activities and describe significant program changes in the annual report on the city's public education and outreach program and activities to minimize spills, illicit discharges, and dumping	Year 1 Annual Report	Annually
g. 8	Submit an annual summary of implementation activities and describe significant program changes in the annual report on the city's sanitary sewer maintenance program and activities  Program to Reduce Pollutants in	Year 1 Report	Annually
a.	Construction Site Runoff Submit any updates to the odi ordinance and specific do the city	Annual Report	As necessary
b.	Develop and submit a des pt method to inventory and to construction sites, and ma records of inspection results and apliance status.	Year 1 Annual Report	
C.	Develop and submit a description of a training program implemented for inspectors and the construction industry.	Year 2 Annual Report	Annually
d.	Submit an annual summary of the City's construction site erosion control activities.	Year 1 Annual Report	Annually

B. Reporting Compliance with Schedules. With the annual report, the permittee shall submit to the Water Protection Program a written notice of compliance or noncompliance for a specific action (interim milestone or final deadline) identified in the above schedule(s). This section shall supercede the Schedule of Compliance requirements contained in Standard Conditions.

## PART V. DISCHARGE LIMITATIONS

The permittee shall reduce the discharge of pollutants from the MS4 to the maximum extent practicable in accordance with Section 402(p)(3)(B) of the Clean Water Act.

## PART VI. MONITORING AND REPORTING REQUIREMENTS

## A. Storm Event Discharges

1. Representative Monitoring: The permittee shall conduct a monitoring program for representative data collection for the five year term of the permit to characterize the quality of storm water discharges from the MS4. The permittee shall monitor representative land-uses at the study sites listed in Table VI.A.1.a. The permittee shall collect samples and analyze for parameters listed in Table VI.A.1.b. Modifications to the monitoring program, including but not limited to alternate representative monitoring locations or changes in parameters may be substituted for just cause during the term of the permit. Requests for approval of monitoring program modifications shall be made to the Water Protection Program in writing and include the rationale for the requested modifications. Unless disapproved by the Water Protection Program, the requested modifications to the monitoring program may commence 30 days from the date of the request.

	TABLE VI.A.1.a. Monitoring	Logations
OUTFALL	LOCATION	DESCRIPTION
#801	SE 50 <sup>th</sup> Terrace & Sterling	Residential
#802	SE Wyandotte & 135 <sup>th</sup> Street	Industrial
#802	NW 104 <sup>th</sup> Street & N.	Heavy Industrial
#003	Everton Avenue	neavy industriar
#804	49 <sup>th</sup> Street & N Highland	idential
#805	S. Holmes & Minor Drive	ommercial
#806	Barry Rd. & Interstate-29	mmercial
	TABLE VI.A.1.b. Par  Converse nal residence con Co  Co  Graph  Ph  Ph  Ph  Ph  Converse nal residence con Co  Co  Co  Co  Co  Co  Co  Co  Co  Co	halys
	Ammonia	
	Nitrate+Nitrite	
Nitrogen, Total Kjeldahl		
	Phosphorus, Dissolve	ed
	Phosphorus, Total	
	Total Dissolved Soli	ds
	Total Suspended Soli	ds
	Metals	
	Cadmium	
	Chromium	
	Copper	
	Lead	
	Mercury	

Silver

Zinc	
Pesticides	
A-Bhc	
DDT	
Methoxychlor	
Dieldrin	
Organic Base Neutral Acids (BNAs)	

- 2. Storm Event Data: For Part VI.A.1, quantitative data shall be collected to estimate pollutant loadings and event mean concentrations for each parameter sampled. Records shall be maintained of all analytical results, the date and duration (in hours) of the storm event(s) sampled; rainfall measurements or estimates (in inches) of the storm event which generated the sampled runoff; the duration (in hours) between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event; and an estimate of the total flow of the discharge sampled.
- 3. Sample Type, Collection, and Analysis: Analysis and collection of samples shall be done in accordance with methods specified in 40 CFR Part 136 or any other available methods as appropriate.
  - a. Monitoring frequency is 3 times a year in accordance with the procedures below.
  - Grab samples taken within the first two hours b. charge when used for the analysis of pH, temperature, oil & grease iform, E. Coli, and total phenols. Multiple grab samples, collect and in (idually analyzed) at least once per hour for at least ( ∢irà \e ho\ of discharge, may be used to prepare a flow weighted av ne othe arameters listed in or flow weighted composite Table VI.A.1.b. Or, date be samples of the entire the first three hours of discharge.
  - Samples shall be scharge resulting from a storm event agnitude and that occurs at least 72 that is greater th hours from the pred rable (greater than 0.1 inch rainfall) storm event. Composite sa may be taken with a continuous sampler or as a of three sample aliquots taken in each hour of combination of a min discharge for the entire discharge or for the first three hours of the discharge, with each aliquot being separated by a minimum period of fifteen minutes. The required 72 hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge. The required 72 hour storm event interval is also waived where the permittee documents that less than a 72 hour interval is representative for local storm events during the season when sampling is being conducted.
- B. Assessment of MS4 Discharges on Receiving Waters. To assess the impacts of MS4 discharges on receiving waters, the permittee shall develop a monitoring action plan within eighteen months of the effective data of this permit, which shall be implemented by the permittee during years three through five of the permit.

- C. Biological Sampling. The permittee shall collect bioassessment data to obtain direct measurements of stream ecosystem conditions. The ultimate goals of bioassessment are to assess the biological integrity of receiving waters, to detect biological responses to pollution, and to identify probable causes of impairment not detected by chemical and physical water quality analysis. Bioassessment data shall be used to identify long-term trends in the quality and character of stream biotic communities.
  - 1. Within eighteen months of the effective date of this permit, the permittee shall develop a biological sampling action plan, including the following information:
    - a. Identification of sampling stations and rationale for selection.
    - b. Location of known MS4 major outfalls discharging to waterbodies in which sampling stations are located.
    - c. Land use activities near sampling stations.
    - d. Frequency of monitoring.

The permittee shall conduct biological assessments of at least five urban stream reaches and two reference stream reaches in year three of the permit term in accordance with Missouri Department of Natural Resources protocols.

- 2. Biological sampling shall be performed or supervised by trained field personnel. The permittee's biological sampling action plan may optionally allow persons qualified at or above the Missouri Stream Team Volunteer Water Quality Monitoring Introductory Level to assist in meeting biological sampling requirements of this permit.
- 3. The permittee shall summarize the results of its bioassessments in the Annual Reports. In the year 5 summary, the permittee shall also draw conclusions based on the results, and recommend future goals based on this information.
- D. Annual Report. The permittee shall prepare and submit an Annual Report no later than six months following the period covered by the report. The report shall cover a fiscal year (May 1 April 30) and will be due by December 31 each year. The first report may include a "partial" year. The permittee shall sign and certify the Annual Report in accordance with Subpart VI.D of this permit, and shall include a statement or resolution that the permittee's governing body or agency (or delegated representative) has reviewed or has been apprised of the content of the Annual Report. The Annual Report shall include the following:
  - 1. The status of implementing the component that are established as permit component to the component that are established as permit component to the component that are established as permit component to the component that are established as permit component to the co
  - 2. Proposed changes to the storm wat manageme programs that are established as permit conditions;
  - 3. Evaluation of the eff-tive of storm or management program in improving water quantum and the direct and/or indirect measurements ed the evaluation of SWMP revisions based on the evaluation of the direct and/or indirect and on the evaluation of SWMP revisions based on the evaluation of the eff-tive of the direct and/or indirect and or indirect an
  - 4. A summary day initoring data, that is accumulated throughout the reporting y
  - 5. Annual expending the reporting period and budget for year following each annual n
  - 6. A summary desoring the number and nature of enforcement actions, inspections and public education programs; and
  - 7. Identifications of water quality improvements or degradation.

- E. Certification and Signature of Reports. All reports required by the permit and other information requested by the Director shall be signed by:
  - 1. For a municipality, State, or other public agency: either a principal executive officer or ranking elected official; or
  - 2. A duly authorized representative of that person. A person is a duly authorized representative only if:
    - a. The authorization is made in writing by a person described above and submitted to the Director.
    - b. The authorization specifies an individual or a position have responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be a named individual or any individual occupying a named position.
    - c. If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new written authorization satisfying the requirements of this paragraph must be submitted to the Director prior to or together with any reports, information, or applications signed by the orized representative.
  - Certification: Any person signing do this section shall make the acs und following certification: AI cer of law that this document and iv u ∖nalt all attachments were prepared t supervision in accordance my ation' ified posonnel properly gathered and with a system designed sur evaluated the informa on my inquiry of the person or persons who mar sons directly responsible for gathering the rma on submitted is, to the best of my knowledge and e, and complete. I am aware that there are significant pen abouting false information, including the possibility of f prisonment for knowing violations."
- E. Reporting: Where and When to Submit.
  - 1. Representative monitoring results (Part VI.A.1) obtained during the reporting period shall be submitted along with the annual report required by Part VI.D.
  - 2. Signed copies of discharge monitoring reports required under Part VI., the Annual Report required by Part VI.C., requests for Storm Water Management Program updates, changes in monitoring locations, other reports required herein or an application for an individual permit shall be submitted to:

Attn: Permits and Engineering Section Water Protection Program Missouri Department of Natural Resources P.O. Box 176 Jefferson City, MO 65102

## PART VII. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Part I Standard Conditions dated October 1, 1980, and hereby incorporated as though fully set forth herein.

## PART VIII. PERMIT MODIFICATION

- A. Modification of the Permit. This permit may be reopened and modified, or alternatively revoked and reissued, in accordance with 10 CSR 20-6.
- B. Termination of Coverage for a Single Permittee. NA
- C. Modification of SWMPs. Only those portions of the Storm Water Management Program specifically required as permit conditions shall be subject to the modification requirements of 10 CSR 20-6. Addition of components control, or requirements by the permittee; replacement of an ineffective or infeasible BMP implementing a required component of the Storm Water Management Program with an alternate BMP expected to achieve the goals of the original BMP; and changes required as a result of schedules contained in Part IV shall be considered minor changes to the SWMP and not modifications to the permit. (See also Part III.G.)
- D. Changes in Monitoring Outfalls. Changes in monitoring outfine will be made in accordance with the procedures in Part VI.A.1.
- modified TMDL Implementation. This permit may be reopered a o incorporate new or Ε. modified Best Management Practices (BMPs) if watershed analysis, a th It ol Total Maximum Daily Load (TMDL) limit for th eceiving waters which are currently included in Missouri( the state not fully achieving ωf the state's water quality star 1d) list. Any permit |cal modification to implement 9 accordance with 10 CSR 20-6.

## PART IX. DEFINITIONS

Definitions as set forth in the Mi Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 or 20-2.010 and Storm Water Regulations 10 CSR 20-6.200 shall apply to terms used herein. Unless otherwise specified, additional definitions of words or phrases used in this permit are as follows:

- A. CWA or "The Act" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Public. 92-500, as amended Pub.L. 95-217, Pub.L. 95-576, Pub-L. 96-483, and Pub.L. 97-117, 33 USC 1251 et.seq.
- B. Discharge for the purpose of this permit, unless indicated otherwise, refers to discharges from the MS4.
- C. MEP is an acronym for Maximum Extent Practicable, the technology-based discharge standard for MS4s established by CWA '402(p).
- D. MS4 is an acronym for Municipal Separate Storm Sewer System and refers to either a Large or Medium Municipal Separate Storm Sewer System.
- E. Part "#" refers, unless otherwise indicated, to Part "#" of this permit (e.g., Part V.E.2.).
- F. Permittee refers to any person, as defined in 10 CSR 20-2.010, authorized by this NPDES permit to discharge to waters of the state.
- G. Storm sewer, unless other wise indicated, refers to a municipal separate storm sewer.
- H. Storm Water Management Program refers to a comprehensive program to manage the quality of storm water discharged from the MS4.
- I. SWMP is an acronym for Storm Water Management Program.
- J. Water Protection Program is the office within the Missouri Department of Natural Resources and will serve to review the permittee's compliance and all other aspects regarding this permit.
- K. Waters of the State is defined in 10 CSR 20-6.200(1)(C).